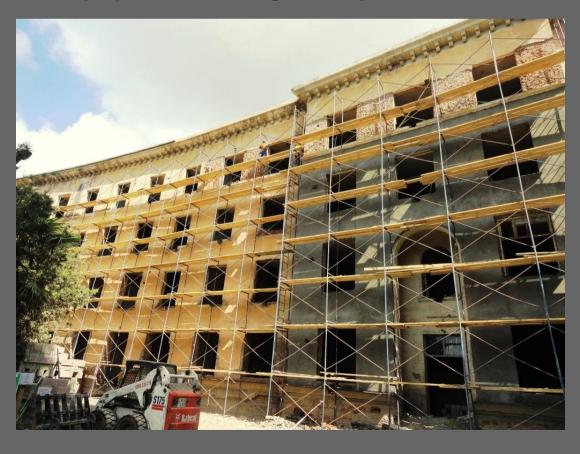


# MUNICIPAL INFRASTRUCTURE AND IDP HOUSING REHABILITATION PROJECT

CONTRACT: AID-EDH-I-00-08-00027-00 TASK ORDER: AID-114-TO-13-00005

# Quarter 3 (Q3) - FY 2014 Progress Report



This report was prepared for the United States Agency for International Development, Task Order AID-114-TO-13-0000, Municipal Infrastructure and IDP Housing Rehabilitation Program

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Mr. Bradley Carr
Water Irrigation and Infrastructure Advisor
Office of Economic Growth
United States Agency for International Development
II George Balanchine Street
Tbilisi, 0131, Georgia

Re: Quarterly Report Year 2014: 3rd Quarter (April 1, 2014 – June 30, 2014) for the Municipal Infrastructure and IDP Housing Rehabilitation Project

# Dear Mr. Carr:

This report is being submitted to you in accordance with the requirements of Task Order No. AID-114-TO-13-00005 of Contract AID-EDH-I-00-08-00027-00. It provides Tetra Tech's Quarterly Report Year 4: 3rd Quarter (April 1, 2014 through June 30, 2014) for the Municipal Infrastructure and IDP Housing Rehabilitation Project.

We look forward to your review and welcome your comments and suggestions.

Very truly yours,

Glen A. Wills, PLS

Glen G. Wills

Chief of Party

Tetra Tech, Inc.

CC: USAID (George Kokochashvili); Tetra Tech (Firouz Rooyani, Dean White, Brian Potvin, Tetra Tech DCC)

# LIST OF ACRONYMS

BEO USAID Bureau Environmental Officer

BOQ Bill of Quantities
BSG Black Sea Group LTD
CC Collective Centers

CM Construction Management

COP Chief of Party

COR Contracting Officer's Representative CQS Consultants' Qualification Selection

DB Design-Build

DCC Document Control Center

DH Durable Housing

DM Station distance along canal
DQC Design Quality Control
EA Environmental Assessment
EHS Environmental, Health & Safety

EOI Expression of Interest ERW Explosive Remnants of War ESS Environmental Scoping Statement

EC Evaluation Committee

FBO Federal Business Opportunities

GEL Georgian Lari

GMIP Municipal Infrastructure and IDP Housing Rehabilitation Project

GoG Government of Georgia

GUWC Georgian United Water Company

Ha Hectare HO Home Office

IDP Internally Displaced Persons

IFB Invitation for Bid
IL Implementation Letter
ITQ Invitation to Quotation
JSC Joint Stock Company

JV Joint Venture KM Kilometer LOE Level of Effort

LTTA Long Term Technical Assistance

M Meter

M80 Mshenebeli 80 LTD

MDF Municipal Development Fund

MRA Ministry of Internally Displaced Persons from Occupied Territories, Accommodations and

Refugees of Georgia

MRDI Ministry of Regional Development and Infrastructure NEO New Economic Opportunities (USAID Project)

O&M Operations & Maintenance

PEA Programmatic Environmental Assessment

PM Project Manager

PMP Performance Monitoring Plan QA/QC Quality Assurance/Quality Control

QBS Quality Based Selection

RCO USAID Regional Contract Officer

RFP Request for Proposal RFQ Request for Quotation

SSEMP Site Specific Environmental Mitigation and Monitoring Plans

SSECP Site Specific Environmental Compliance Plans

STTA Short Term Technical Assistance SWWIS Septic Tank with Infiltration Field

TOR Terms of Reference TT Tetra Tech, Inc.

USAID United States Agency for International Development

USD United States Dollar WWT Wastewater Treatment

WWTF Wastewater Treatment Facilities

# **TABLE OF CONTENTS**

1. Reporting Period – 3rd Quarter 2014	4
2. Publications/Reports	4
3. Technical Assistance	5
4 Travel and Visits	5
5. Accomplishments and Successes during the Reporting Period	5
Component 1: Municipal Infrastructure and Irrigation	5
Component 2: IDP Durable Housing	7
6. Challenges, Constraints, and Plans to overcome them During the Reporting Period	9
Component 1: Municipal Infrastructure and Irrigation	8
Component 2: IDP Durable Housing	9
7. Major Activities Planned in the Next Reporting Period	10
Component 1: Municipal Infrastructure and Irrigation	10
Component 2: IDP Durable Housing	10
8. Environmental compliance	10
9. Financial accomplishment	11
10. Issues requiring the attention of USAID Management	12
11. Data Sharing with Host Government:	12
12. Appendices – N/A this quarter	12

#### INTRODUCTION

This is the fourth Quarterly Report submitted under Task Order EDH-I-00-08-00027-00, TO ID-114-TO-13-00005; Municipal Infrastructure and IDP Rehabilitation Program. The reporting period is for the USAID third quarter FY2014 which covers the period from April 1 through June 30, 2014. This contract, referred to as GMIP II, began on July 29, 2013 as a follow-on contract to GMIP I.

Under the United States Agency for International Development (USAID)/Caucasus Municipal Infrastructure and IDP Housing Rehabilitation Project (GMIP) Contract No. AID-EDH-I-00-08-00027-00; Task Order No: AID-114-TO-13-00005, Tetra Tech, Inc. is responsible for providing services to monitor current processes and practices, identify and mitigate areas of risk, and carry out oversight and quality control efforts. The objective is to ensure that selected infrastructure is implemented effectively and in accordance with US and Georgian standards and regulations. Efforts will compliment the work that MDF does or might perform. The monitoring and oversight role will encompass all areas of the project, from procurement planning to final acceptance. This will help ensure that infrastructure deliverables are effective and efficient, and that implementation is carried out within allowable budgets, time constraints, and accepted quality standards.

The period of performance for this cost plus fixed fee contract is seventeen (17) months from the notice to proceed date of July 29, 2013, when mobilization/transition readiness and kick-off activities began in the existing Tetra Tech Tbilisi Offices. All work is to be completed by December 31, 2014.

# 1. Reporting Period – 3rd Quarter 2014

From April 1, 2014	To June 30, 2014
2. Publications/F Did your organization the reporting period?	 he production of publications, reports, guidelines or assessments during
No/Not Applicable Yes	If yes, please list below:

#### Publications/Reports/Assessments/Curriculums

Title	Author	Date
Warranty assessment of road construction –	Andrew High - DCOP	28-May, 2014
Gorijvari Rd.		
(Municipal Infrastructure Component)		
Warranty assessment of road construction –	Givi Varduashvili – Civil	20-May, 2014
Dusheti, Mtskheta, Gori, Sagolasheni-Dvani	Engineer	
Roads		
(Municipal Infrastructure Component)		
Warranty assessment of road construction –	Givi Varduashvili – Civil	16-May, 2014
Oni Roads	Engineer	
(Municipal Infrastructure Component)		
Assessment of 5 buildings (collective centers)	Temur Levanishvili, TT IDP	1-Apr, 2014
for possible rehabilitation	Building Rehab PM	
(Durable Housing Component)		
Multiple evaluation reports of defects in the	Otar Maghalashvili	May, 2014
Saltivisi/Tiriponi Canal system.		

# 3. Technical Assistance Did your organization utilize short-term technical assistance during the reporting period? No/Not Applicable Please list below: Consultants/TDYers Organization Name Arrival Departure Type of assistance provided 4. Travel and Visits Did your organization support international travel during the reporting period? No/Not Applicable Please list below: Yes International Travel (All international travel) Destination **Host Organization** Purpose of the travel Name Departure Arrival Have any Monitoring Visits/supervision been made to your program during the reporting period?

Description of	Start date	End date	Sites visited	Written recommendations
Monitoring team				provided
Home Office	4/1/2014	6/31/2014	GMIP Tbilisi	Multiple weekly conference
Management			Office through	calls provide QA/QC and
			conferencing	additional resources required
				to support in-country team on
				production of work activities,
				deliverables and project
				financials.

# 5. Accomplishments and Successes during the Reporting Period

# Component 1: Municipal Infrastructure and Irrigation

#### **Municipal Infrastructure**

#### **ONI Water Supply**

The ONI water supply project was implemented through a design-bid-build contract. Rehabilitation of water supply head works in the town of Oni was awarded to New Development Company Construction Ltd (NDC) in August 2013. The addition of an-on-site bathroom facility was made to the scope of work.

Tetra Tech continues to provide construction oversight for the ongoing work for this sub-project. This sub-project was ongoing at the end of this reporting period with completion expected during the next reporting period.

#### **ONI Roads**

The warranty period for this sub-contract (Rehabilitation of Internal Roads in Town Oni - ICB No: USAID/CW/ICB/03-L2/1-2012) expired on June 13, 2014. Tetra Tech performed a comprehensive evaluation of the work prior to the warranty expiration (see Section 2 above). Based on the results of

our evaluation, the contractor made repairs to the road. Final acceptance inspection was pending at the close of this reporting period.

#### Gorijvari Road

The warranty period for the Gorijvari road sub-project expired during this reporting period (on June 15, 2014). Tetra Tech performed a comprehensive evaluation of the work prior to the warranty expiration (see Section 2 above). The contractor made remedial repairs, but subsequent review by Tetra Tech revealed there were inadequacies remaining. Additional repairs were needed at the close of this reporting period.

#### Mtskheta Roads

The warranty period for the Mtskheta roads sub-project expired on June 15, 2014. Tetra Tech performed a comprehensive evaluation of the work prior to the warranty expiration (see Section 2 above). The contractor made remedial repairs. A final inspection revealed all observed deficiencies had been repaired satisfactorily.

#### **Dusheti Roads**

The warranty period for the Dusheti roads sub-project expired during this reporting period (on June 15, 2014). Tetra Tech performed a comprehensive evaluation of the work prior to the warranty expiration (see Section 2 above). The contractor made remedial repairs, and the final inspection was pending at the close of this reporting period.

#### Sagolasheni-Dvani Road

The warranty period for the Sagolasheni-Dvani road sub-project expired during this reporting period (on June 15, 2014). Tetra Tech performed a comprehensive evaluation of the work prior to the warranty expiration (see Section 2 above). Based on or evaluation, no remedial work was required.

#### Irrigation

Two irrigation sub-projects, referred to as the "Saltvisi Canal Systems" and the "Tiriponi Canal Systems" were implemented under a single design build contract. During previous reporting periods, the scope of work was altered significantly, primarily due to cost and schedule constraints. The work is on-going with a scheduled completion date of 1-JUL, 2014. Due to disagreements between the contractor and MDF/Tetra Tech/USAID during this reporting period, intensive field investigations were conducted to review and evaluate new works (performed from Oct, 2013, to May, 2014) as well as remedial work (performed between Oct, 2012 and May 2013). Due to contractor delays and poor construction, numerous areas of defective construction have been found. A series of initial assessment reports were prepared by Tetra Tech identifying those areas. Since the commencement of the irrigation season, additional defective construction has been found. During the upcoming reporting period, Tetra Tech will conduct additional inspections to quantify the observable defects above the waterline. A complete inspection will be required once the irrigation season ends, which is anticipated to be 15-OCT, 2014. Only at that time will it be possible to provide a full list of corrective works needed, and a schedule devised to indicate a timeline.

A funding surplus of approximately 300,000 (USD) was identified under this component. The surplus was due to modifications to the original scope of work and a favorable shift in the currency exchange rate [NOTE- the amount of surplus funds is subject to significant changes due to a fluctuating currency exchange rate and potential modifications to the on-going contracts].

During the last reporting period, several discussions were held between USAID, MDF, Tetra Tech and the Amelioration Company to consider the best use of the funds. Based on the discussions, the following work was performed with the additional funds during this reporting period:

• Cleaning of an additional 600 meters of the Tiriphoni Main canal in the vicinity of the Occupied Territory of Tskinvali Region (South Ossetia) border (STA 129+83).

In addition, equipment will be purchased and provided to the Amelioration Company to reinforce their maintenance capabilities (i.e. canal cleaning, monitoring and gate repair). Tetra Tech is in the process of writing the specifications for this equipment at the close of this reporting period.

During this reporting period, Tetra Tech also provided continued oversight, participated in the technical committee, and attended numerous meetings with MDF and the Amelioration Company.

# **Component 2: IDP Durable Housing**

# **Subcomponent 2.1: Cottage Settlements**

#### Design:

The remaining three designs for the sanitary system upgrades were completed during this reporting period (Skra, Berbuki and Khurvaleti).

During this reporting period, Tetra Tech provided architectural and engineering review of all revisions made to the original plans and drawings for these designs and attended numerous meetings with MDF and USAID.

**Construction Management:** The Construction Management (CM) firm retained to provide services for the Three Hospitals and the Twenty-Two Collective Centers entered into negotiations with MDF/USAID to provide management services for Lots 1,2 and 3 of the cottage settlement sanitary sewer upgrade component (Lot #1 – Frezeti. Lot #2 - Shavshvebi, Akhalsopeli and Teliani. Lot #3 – Mokhisi and Tsilkani). The contract amendment was finalized on 23-JUN, 2014.

During this reporting period, Tetra Tech met with the CM firm weekly and assisted in defining the roles/responsibilities for their part in the process.

#### Construction:

Four contracts (lots) for improvements to sanitary sewer systems in ten (10) Cottage Settlements of IDPs were awarded to four construction firms (see table for details)

Lot #	Site Locations	Contract Awardee
1	Frezeti	Peri, Ltd.
2	Shavshebi, Akhalsopeli, Teliani	Dagi, Ltd
3	Mokhisi, Tsilkani	In-Si, Ltd.
4	Berbuki, Khurvaleti, Metekhi, Skra	Java Group

Construction of the sanitary sewer upgrades for the first, second and fourth lots (Frezeti, Shavshvebi, Akhalsopeli; Teliani; and Berbuki, Khurvaleti, Metekhi and Skra sites) were started during this reporting period, while lot #3 is scheduled to begin construction during the beginning of the next reporting period.

During this reporting period, Tetra Tech provided continued contract administration, design input, design review, and oversight of MDF and Voyants/Bets/Saunders activities and personnel.

#### **Subcomponent 2.2: IDP Buildings**

Under the IDP durable housing component, ten (10) unoccupied buildings, Three (3) hospital buildings, and Twenty-Two (22) collective centers (CCs) were selected for rehabilitation (note- the hospital sub-component has been renamed "Three (3) Hospital Buildings", from the original "Eight (8) Hospital Buildings and the collective center sub-component has been renamed "22 Collective Centers", from the original "28 Collective Centers". This was done to more accurately reflect the modified scope of work)

#### Ten (10) Unoccupied Buildings

**Design/Build:** Rehabilitation works for IDP housing in ten (10) buildings was carried out under a design build contract awarded to Mshenebeli 80 Ltd. in May 2012.

#### Construction:

All construction activities were completed prior to this reporting period. A walk-through was performed and a final punchlist was created during the last reporting period. All punch list items were completed satisfactorily during this reporting period. Final inspections for the defect and liability warranty period will be completed during the next reporting period.

Tetra Tech provided field inspections and oversight for the remainder of the closeout activities, including evaluation of the finished work.

#### Three (3) Hospital Buildings

**Design:** During this reporting period, Tetra Tech provided architectural and engineering review of all stages of plans and drawings for these designs and attended numerous meetings with MDF and USAID. 100% designs for all hospital sites were completed during this reporting period.

**Construction Management:** A Construction Management (CM) firm (a Joint Venture between Voyants, Bets and Saunders Group) was awarded a contract to provide construction management services for the Eight Hospitals component. *During this reporting period, Tetra Tech met with the CM firm weekly and assisted in defining the roles/responsibilities for their part in the process.* 

**Construction** (see below for site-specific information):

#### Kaspi Site

The selected contractor (Transmsheni.) began construction on this site on 2-FEB, 2014. Work is ongoing. Primary responsibility for construction management is being provided by the Construction Management firm (Voyants/Bets/Saunders, JV), with construction oversight provided by Tetra Tech. See Section 6 for project concerns/issues.

#### Borjomi Site

The selected contractor (Transmsheni.) began construction on this site on 1-FEB, 2014. Work is ongoing. Primary responsibility for construction management is being provided by the Construction Management firm (Voyants/Bets/Saunders, JV), with construction oversight provided by Tetra Tech. See Section 6 for project concerns/issues.

#### Kutaisi Site

The selected contractor (In-Si, Ltd) began construction on this site on 20-FEB, 2014. Work is ongoing. Primary responsibility for construction management is being provided by the Construction Management firm (Voyants/Bets/Saunders, JV), with construction oversight provided by Tetra Tech. See Section 6 for project concerns/issues.

# Twenty-two (22) Collective Centers

#### Design:

The design of the Rehabilitation Works for 28 IDP Housing CCs was implemented by Artstudio in March 2013. Scope changes and a frequently shifting schedule caused delays. During this reporting period, Tetra Tech provided numerous reviews of schedules and designs provided by the Contractor, and attended numerous meetings. Minor modifications to the reduced scope of work drafted during the last reporting period are on-going on a site-by-site basis.

**Construction Management:** A Construction Management (CM) firm (a Joint Venture between Voyants, Bets and Saunders Group) was awarded a contract to provide construction management services for the 22 Collective Centers component. *During this reporting period, Tetra Tech regularly* 

met with the CM firm and assisted in defining the roles/responsibilities for their part in the process, as well as providing oversight during the initial contractor mobilization phase.

#### Construction:

Construction was begun at the Lots #1 and #2 project sites. During this reporting period, Tetra Tech provided field oversight of the construction at these sights.

# 6. Challenges, Constraints, and Plans to overcome them During the Reporting Period

#### **Component 1: Municipal Infrastructure and Irrigation**

#### **Municipal Infrastructure:**

**ONI Water Supply Construction:** Owing to a combination of lower than expected production, rework due to incorrect implementation of the approved plans, and additions to the scope of work, the original contract completion date (June 15, 2014) was extended to July 31, 2014.

**Plans to overcome:** Although changes to the scope of work are not typically considered a contractor-originated delay, the other issues mentioned above are the responsibility of the contractor and can be reduced or eliminated by an increased effort by the contractor. To help the project regain lost time, Tetra Tech will continue to provide field monitoring with recommendations to MDF and the contractor.

#### Irrigation:

Possibly due to the imminent release of water scheduled (and actually released) on May 15, repairs requested to be carried out by the contractor were unacceptable in their execution and had to be rerepaired in several instances. As the May 15, deadline approached, it became apparent that the contractor would not successfully complete all required works by the time the water was released. Originally, USAID intended to extend the contract through the end of the irrigation season, so that the unfinished works could be completed under the original contract and would not be considered part of the repairs under the one-year warranty period. But subsequent discussions between MDF and the contractor convinced USAID to allow the contract to expire as originally intended on July 1, 2104, and all remaining repairs to be performed during the subsequent one-year warranty period. MDF will retain approximately 1.4 million (USD) from the contract to ensure satisfactory completion of the works.

**Plans to overcome:** Tetra Tech is currently compiling a comprehensive list of all observable defects, so that repairs can be made efficiently once the irrigation season is over and the canals have been emptied and cleaned.

# **Component 2: IDP Durable Housing**

#### Three (3) Hospital Buildings

#### Construction:

During this reporting period the following issues were encountered:

#### Khoni Site

MDF officially requested (via letter on 24-JUN, 2014) that this site be recognized as being returned to the MRA (it was determined earlier that due to latent structural defects, this site was inappropriate for purposes of rehabilitation and removed from the Durable Housing program).

#### Baghdati Site

MDF officially requested (via letter on 24-JUN, 2014) that this site be recognized as being returned to the MRA (it was determined earlier that due to latent structural defects, this site was inappropriate for purposes of rehabilitation and removed from the Durable Housing program).

#### Kaspi Site

Potential structural weakness in areas of this building revealed during the last reporting period have been addressed by the designer (ArtStudio) and the construction management (CM) contractor (Voyants/bets/Saunders) and remedial repairs performed. The required repairs impacted the project schedule and in discussions between the CM contractor and the contractor (Transmsheni), an extension to 5-SEPT is pending.

#### Kutaisi Site

Potential structural weakness in areas of this building revealed during the last reporting period have been addressed by the designer (ArtStudio) and the construction management (CM) contractor (Voyants/bets/Saunders) and remedial repairs performed. The required repairs impacted the project schedule, and in discussions between USAID, Tetra Tech, MDF, the CM contractor and the contractor (In-Si, Ltd.), it was agreed to extend the contract deadline to 8-NOV, 2014.

Due to reoccurring issues with poor quality control and health and safety issues, the CM contractor sent a letter to the contractor, stating that if there were no significant improvements in these areas by 1-JUL, 2014, the CM firm would issue a stop work order until such time as the contractor was in compliance. Subsequent efforts by the contractor were adequate to allow them to continue working, although the CM firm still requires additional work to be performed to meet compliance.

# Twenty-two (22) Collective Centers (CCs)

#### Design:

All final designs were completed during the last reporting period, with the exception of the two groups of additional buildings MRA requested be considered for the project. During this reporting period, plans were finalized and reviewed for the additional buildings, although it was later decided that the buildings would not be included in the programs.

**Plans to overcome:** Tetra Tech has adjusted staffing assignments for our IDP Building Rehabilitation Manager, Temur Levanishvili. An architect was hired to assist the team with in-house design reviews. Tetra Tech management staff is also working with MDF and Art Studio to provide a realistic staggered schedule for the design and construction periods as this has been identified as an area of risk for the program.

# 7. Major Activities Planned in the Next Reporting Period

# **Municipal Infrastructure**

The ONI water supply project will be completed during the next reporting period (scheduled completion date of July 31, 2014).

During the upcoming quarter, Tetra Tech will provide continued construction oversight during the construction phase and closeout review activities at the completion of the contract.

#### Irrigation

During the upcoming quarter, Tetra Tech will continue to perform field inspections and compile a comprehensive list of observable defects in the both the Saltvisi and Tiriponi irrigation systems. Since the irrigation season will continue through the end of the upcoming quarter, no major construction and/or repair works are envisioned during the next reporting period.

Tetra Tech will also complete the specifications for the additional equipment to be allocated to the Amelioration Company for irrigation system maintenance. MDF will incorporate the specifications into a bid documentation package.

# **Subcomponent 2.1: Cottage Settlements**

**Construction:** During the upcoming quarter, sanitary upgrades to all four lots will be under construction. Tetra Tech will continue to provide continued contract administration support, construction oversight and design review recommendations.

#### **Subcomponent 2.2: IDP Buildings:**

# Ten (10) Unoccupied Buildings

During the upcoming quarter, the one-year warranty period will expire on the 10 buildings. Tetra Tech will perform the necessary inspections to evaluate all buildings for warranty items, as well as provide any necessary follow-up inspections to confirm all warranty items have been adequately addressed.

#### Three (3) hospitals

**Design, Procurement, & Construction Oversight:** All design were completed during previous reporting periods, so little or no design or procurement activities are envisioned other than review of field engineering changes suggested by the contractor. Two projects (Borjomi and Kaspi), are expected to be completed during the next reporting period, while the remaining project (Kutaisi) will continue through the end of the next reporting period.

Tetra Tech will continue to perform field monitoring of activities, invoice reviews and QA of the construction management firm.

#### Twenty-two (22) Collective Centers (CCs)

**Design, Procurement & Construction Oversight:** The design of the rehabilitation works for IDP housing in 22 CCs was completed during the last reporting period. Construction is expected to continue beyond the upcoming reporting period.

Tetra Tech will continue to perform field monitoring of activities, invoice reviews and QA of the construction management firm.

# 8. Environmental compliance

During the partial demolition of the roof of the existing Kutaisi Hospital (part of the "Hospitals 3 Sub-component) it was determined that the old roof tile likely contained asbestos. The contractor was requested to remove the Asbestos Containing Material (ASM) in accordance with accepted asbestos removal practices. Tetra Tech provided frequent and rigorous inspections in an effort to ensure the ASM was removed and disposed of properly.

Other than the above, there are no known currently existing environmental issues.

Tetra Tech has developed an environmental review format specifically tailored to GMIP including an Environmental Mitigation and Monitoring Plan (EMMP), based on the USAID Georgia Bureau's Environmental Review Form and in collaboration with GMIP staff.

- We have trained local project engineers and appropriate administrative staff to use the environmental review format and to develop and implement the EMMP on the sites under investigation.
- We are using environmental review/compliance-related forms for the current field investigations.
- No adaptations or modifications to the site environmental plan were required during this reporting period

#### 9. Financial accomplishment

Life of Project budget	Obligated to date	Expenditure (Accrual & actual disbursement)	Remaining balance
(a)	(b)	to date (6/30/2014) (c)	(d) = (b) - (c)
\$2,899,935	\$2,225,935	\$1,832,615	\$393,320

Obligated to date	Expenditure (Accrual & actual	Expenditure Projections 4th	Remaining balance
(a)	disbursement) to date – (6/30/2014) 3rd Quarter 2014	Quarter 2014 (c)	(e) = (a)-(b)-(c)
	(b)		
\$2,225,935	\$1,832,615	\$ 516,000	\$ (122,680)

# 10. Issues requiring the attention of USAID Management

Based on the information presented in "Section 9 - Financial Accomplishment" above, Tetra Tech has requested that USAID allow additional funds to be obligated to maintain realistic staffing levels to perform the necessary scope of work. Due to delays in contract award and slower than anticipated contractor progress, it appears several elements of this contract will extend beyond the original proposed date of August 1, 2014, with multiple projects continuing into November.

# 11. Data Sharing with Host Government:

Have you shared this re	eport with	the host government?
Yes No	$\mathbf{X}$	
If yes, to which govern If No, why not?	mental off	ice/s?

Tetra Tech is under contract with USAID for the GMIP program. Therefore, we will not distribute this report until we have concurrence from USAID on the content contained herein, and also concurrence to distribute the report to the appropriate agencies, one of which is MDF. We will seek this concurrence.

# **12. Appendices –** N/A this quarter